CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.06/KRIDL/CEMENT/2014-15 Date: 04.08.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and Drains at Maruthi Saw Mill Cross roads in Ward No.06, in Thanisandra Village Limits, BBMP, Bangalore.
REFERENCE	:	AEE/BTP/WO/414/2014-15 Dated: 02.08.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.00 %	-

Note:

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Job No.: CTCE/BBMP/W.No.06/KRIDL/SAND/2014-15 : 04.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Roads and Drains at Maruthi Saw Mill Cross roads in Ward No.06, in Thanisandra Village Limits, BBMP, Bangalore.

Reference : AEE/BTP/WO/414/2014-15 Dated: 02.08.2014

Date of Testing : 04.08.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	99	4.95	4.95	95.1	90-100
2.36	198	9.90	14.85	85.2	75-100
1.18	499	24.95	39.80	60.2	55-90
600 Micron	425	21.25	61.05	39.0	35-59
300 Micron	436	21.80	82.85	17.2	8-30
150 Micron	205	10.25	93.10	6.9	0-10

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Job No.: CTCE/BBMP/W.No.06/KRIDL/AGG/2014-15 : 04.08.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Roads and Drains at Maruthi Saw Mill Cross roads in Ward No.06, in Thanisandra Village Limits, BBMP, Bangalore.

Reference : AEE/BTP/WO/414/2014-15 Dated: 02.08.2014

Date of Testing : 04.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1015	3.98	3.98	96.02	95-100
20	16458	64.54	68.52	31.48	30-70
10	5198	20.38	88.91	11.09	10-35
4.75	2545	9.98	98.89	1.11	0-5

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.06/KRIDL/STEEL/2014-15 04.08.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Improvements to Roads and Drains at Maruthi Saw Mill Cross roads in Ward No.06, in Thanisandra Village Limits, BBMP, Bangalore.

Reference : AEE/BTP/WO/414/2014-15 Dated: 02.08.2014

Date of Test : 04.08.2014

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	547	13.10	O.K	O.K

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.06/KRIDL/CUBE/2014-15 20.09.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Improvements to Roads and Drains at Maruthi Saw Mill Cross roads in Ward No.06, in Thanisandra Village Limits, BBMP, Bangalore.

Reference : AEE/BTP/WO/414/2014-15 Dated: 02.08.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.08.2014	20.09.2014	8.436	515.9	22.93
2	23.08.2014	20.09.2014	8.252	479.3	21.30
3	23.08.2014	20.09.2014	8.397	497.6	22.12

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